

MR4 Receiver Parts List-1

Rev A

CAPACITORS

C 1 Part of Helical Resonator
 C 2 Part of Helical Resonator
 C 3 Part of Helical Resonator
 C 4 5-25 pf Trim Cap
 C 5 .001 Disc
 C 6 .001 Disc
 C 7 .001 Disc
 C 8 .001 Disc
 C 9 Part of Helical Resonator
 C 10 Part of Helical Resonator
 C 11 Part of Helical Resonator
 C 12 Part of Helical Resonator
 C 13 Part of Helical Resonator
 C 14 Part of Helical Resonator
 C 15 5-25 pf Trim Cap
 C 16 .001 Disc
 C 17 .001 Disc
 C 18 .001 Disc
 C 19 .001 Disc
 C 20 Part of Helical Resonator
 C 21 .001 Disc
 C 22 5-25 pf Trim Cap
 C 23 .001 Disc
 C 24 5-25 pf Trim Cap
 C 25 .001 Disc
 C 26 5-25 pf Trim Cap
 C 27 .001 Disc
 C 28 5-25 pf Trim Cap
 C 29 .001 Disc
 C 30 100 pf Siver Mica
 C 31 4.7Mfd 16v.
 C 32 .01 Disc
 C 33 F.S.
 8 pf SM (135-174 Mhz)
 8 pf SM (420-512 Mhz)
 12 pf SM (216-250 MHZ)
 C 34 F.S.
 56 pf NPO (135-151 MHz)
 47 pf NPO (151-158 MHz)
 36 pf NPO (158-174 MHz)
 39 pf NPO (215-250 MHz)
 20 pf NPO (420-512 MHz)
 C 35 .001 Disc
 C 36 .001 Disc
 C 37 F.S. 1 pf tubular
 C 38 F.S.
 10 pf NPO (135-151 MHz)
 12 pf NPO (151-158 MHz)

RESISTORS

R 1 1K
 R 2 1.8K
 R 3 220 Ohm with F.Bead
 R 4 100 Ohm
 R 5 1K
 R 6 1.8K
 R 7 220 ohm with F.Bead
 R 8 100 Ohm
 R 9 10K *
 R 10 10K *
 R 11 10K *
 R 12 10K *
 R 13 15K
 R 14 3.3K
 R 15 220 Ohm
 R 16 39 Ohm with F.Bead
 R 17 1.5K
 R 18 6.8K
 R 19 1.8K
 R 20 220 Ohm
 R 21 47 Ohm with F.Bead
 R 22 6.8K
 R 23 1.8K
 R 24 220 Ohm
 R 25 47 Ohm with F Bead
 R 26 6.8K
 R 27 1.8K
 R 28 220 Ohm
 R 29 47 Ohm with F. Bead
 R 30 1K
 R 31 2.7K
 R 32 1K
 R 33 47 Ohm with F. Bead
 R 34 75 Ohm
 R 35 2K
 R 36 2K
 R 37 47 Ohm With F. Bead
 R 38 1K
 R 39 2.7K
 R 40 1 K
 R 41 75 Ohm
 R 42 2.2K
 R 43 100K
 R 44 4.7K
 R 45 1K
 R 46 47K
 R 47 4.7K
 R 48 390K

MR4 Receiver Parts List-2
Rev A3

CAPACTORS

| | |
|------|--------------------------|
| | 10 pf NPO (158-250 MHz) |
| | 15 pf NPO (420-512 MHz) |
| C 39 | F.S. |
| | 10pf NPO (135-151 MHz) |
| | 10 pf NPO (151-158 MHz) |
| | 8 pf NPO (158-174 MHz) |
| | 12 pf NPO (215-512 MHz) |
| C 40 | 1 pf (5 pf 220 Mhz only) |
| C 41 | .001 Disc |
| C 42 | .01 Disc |
| C 43 | F.S. 1 pf tubular |
| C 44 | F.S. |
| | 22 pf (135-151Mhz) |
| | (151-158Mhz) |
| | (158-174Mhz) |
| | (215-250Mhz) |
| | (420-512Mhz) |

| | | | |
|------|---------------------|------|----------------------|
| C 45 | 6.8 NPO Disc | R 61 | 470K |
| C 46 | F.S. 1 pf | R 62 | 1 Meg |
| C 47 | .001 Disc | R 63 | 470K |
| C 48 | .01 Disc ** | R 64 | 10K Pot |
| C 49 | 3-15 pf Trim Cap ** | R 65 | 1 Meg |
| C 50 | 1 pf tubular | R 66 | 5k Pot |
| C 51 | 3-15 pf Trim Cap ** | R 67 | 22 Meg |
| C 52 | 3-15 pf Trim Cap ** | R 68 | 150 Ohm with F. Bead |
| C 53 | 3-15 pf Trim Cap ** | R 69 | 22 Meg |
| C 54 | 1 pf tubular ** | R 70 | 3.9K |
| C 55 | 33 pf NPO | R 71 | 2.2K |
| C 56 | 10 pf NPO | R 72 | 470K |
| C 57 | 27 pf NPO | R 73 | 10K |
| C 58 | .01 Disc | R 74 | 1 Meg |
| C 59 | .01 Disc | R 75 | 10K |
| C 60 | 33 pf NPO | R 76 | 20K |
| C 61 | .01 Disc | R 77 | 4.7K |
| C 62 | 10 pf NPO | R 78 | 100K |
| C 63 | .01 Disc | R 79 | 10K |
| C 64 | .01 Disc | R 80 | 10K |
| C 65 | .001 Disc | R 81 | 10K |
| C 66 | 33 pf NPO | R 82 | 150 Ohm |
| C 67 | .01 Disc | R 83 | 3.9K |
| C 68 | 100 pf S.M. | R 84 | 50K pot (Squelch) |
| C 69 | 17 pf S.M. | | |
| C 70 | .01 Disc | | |
| C 71 | 100 pf NPO | | |
| C 72 | .1 Disc | | |
| C 73 | .1 Disc | | |
| C 74 | 100 pf S.M. | | |
| C 75 | 100 pf NPO | | |

SEMI-CONDUCTOR DEVICES

MF4 Receiver Parts list -3
Rev A3

| | | | |
|-------|------------------|---------|----------|
| C 76 | 100 pf NPO | Q 2 | MRF 901 |
| C 77 | 4.7 Mfd 16 v: | Q 3 | 2N4123 |
| C 78 | 4.7 MFD 16v. | Q 4 | 2N3563 |
| C 79 | .047 Mylar | Q 5 | 2N3563 |
| C 80 | .01 Mylar | Q 6 | 2N5179 |
| C 81 | 2.2 MFD | Q 7 | 2N3563 |
| C 82 | 2.2 MFD 16v. | Q 8 | 2N3563 |
| C 83 | 4.7 MFD 16v. | Q 9 | 2N4123 |
| C 84 | 220 MFD 35v. | Q 10 | 2N4123 |
| C 85 | .1 | Q 11 | 2N4123 |
| C 86 | 33 MFD 35v. | Q 12 | 2N4123 |
| C 87 | .1 MFD Disc | Q 13 | 2N4123 |
| | | | |
| C 88 | 220 MFD 35v. | Q 14 | 2N4123 |
| C 89 | .1 MFD Disc | Q 15 | 2N4123 |
| C 90 | .1 MFD Disc | Q 16 | 2N4123 |
| C 91 | .1 MFD Disc. | | |
| C 92 | 100 pf NPO | U 1 | MC 3359 |
| C 93 | 100 pf NPO | U 2 | CD4007 |
| C 94 | 4.7 MFD 16v. | U 3 | LM3900 |
| C 95 | 100 pf NPO | U 4 | LM380 |
| C 96 | 100 pf NPO | U 5 | 7808 |
| C 97 | 2.2 MFD 16v. | CR 1 | 1N1448 * |
| C 98 | .1 MFD Disc | CR 2 | 1N1448 * |
| C 99 | .1 MFD Disc | CR 3 | 1N1448 * |
| | | | |
| C 100 | .1 MFD Disc | CR 4 | 1N1448 * |
| C 101 | .1 MFD Disc | CR 5-14 | 1N1448 |
| C 102 | 2.2 MFD 16v. | | |
| C 103 | 33 MFD 35v. | | |
| C 104 | .1 MFD Disc | | |
| C 105 | .01 Mylar | | |
| C 106 | | | |
| C 107 | 5-25 pf Trim Cap | | |

CRYSTALS and FILTERS

Y1-Y4

136-151 $F_x = (F_0 - 21.4 \text{Mhz})/2$
 151-174 $F_x = (F_0 - 21.4 \text{Mhz})/3$
 216-250 $F_x = (F_0 - 21.4 \text{Mhz})/4$
 420-512 $F_x = ($
 Parallel resonant, third
 overtone, resistance 30
 Ohm max 12 pf load capacity,
 HC-25/U case

COILS and INDUCTORS

| | |
|-----|--|
| L1 | Part of Hel.Resonator |
| L2 | Part of Hel.Resonator |
| L3 | Part of Hel.Resonator |
| L4 | 6T2518 (135-174 Mhz) |
| L5 | Part of Hel.Resonator |
| L6 | Part of Hel.Resonator |
| L7 | Part of Hel.Resonator |
| L8 | Part of Hel.Resonator |
| L9 | Part of Hel.Resonator |
| L10 | 6T2528 (135-174 Mhz) 5T2518 (216-250 Mhz) |
| L11 | 5T2518 |
| L12 | Part of Hel.Resonator |
| L13 | Part Hel.Resonator |

